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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 26th January 1985

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## CORRIGENDUM

1. In the Gazette of India, Part III-Section 2, dated 10th November, 1984 under the heading "Applications for Patents filed in the Patent Office Branch at Todi Estates 3rd Floor, Sun Mill Compound, Lower Parel (West), Bombay-400 013" in page No. 936, Column 1
  - (i) In respect of Patent Application No. 236/Bom/84 For "BTOMASS" read "BIOMASS" and for "CONIENT" read "CONTENT".
  - (ii) in respect of Patent Application No. 237/Bom/84, for "BETTER" read "BITTER".
  - (iii) in respect of Patent Application No. 239/Bom/84 for "IMFRCESE" read "INCREASE".
2. In the Gazette of India, Part III-Section 2, dated 17th November 1984, under the heading "Applications for Patents filed in the Patent Office Branch, at Todi Estates, 3rd Floor, Lower Parel (W), Bombay 400 013" in page No. 951, Column 2. In respect of Patent Application No. 245/Bom/84, for "RALRAM" read "BALRAM".

## APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

20th December, 1984

- 880/Cal/84 Zambolin Marco. Adiabatic Cooling Process for the conditioning of buildings of big sizes in particular.
- 881/Cal/84. 1 PROF. DR-ING. JORG SCHLAICH, 2. DIPL-ING. RUDOLF BERGEMANN. Method and apparatus for anchoring cables of high-tensile steel wire.
- 882/Cal/84. Norddeutsche Affinerie AG. Apparatus for producing ignitable solids-gas suspensions.
- 883/Cal/84. Krauss-Maffei Aktiengesellschaft. Apparatus for Accelerating the reaction between two media reacting in a fluid bed. [27th November, 1984] U.K.

## COMPLETE SPECIFICATION ACCEPTED

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## CLASS 198-B

155401

Int. Cl. B 03 b 3/00.

AN IMPROVED PROCESS FOR OBTAINING COAL OF REDUCED SULPHUR CONTENT FROM COAL SAMPLES CONTAINING OBJECTIONABLE AMOUNTS OF SULPHUR.

Applicant : INDIAN SCHOOL OF MINES, DHANBAD-826004 BIHAR, INDIA.

Inventors : 1. DR. DEBERRATA CHANDRA, 2. JIT-ENDRA NATH CHAKRABORTY & YERRAMSETTI VENKATA SWAMY.

Application No. 1273/Cal/81 filed November 16, 1981.

Complete Specification left on 23rd December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

An improved process for obtaining improved coal of reduced sulphur content from coal samples containing objectionable amounts of sulphur which comprises subjecting particulate coal to a process of leaching in a leaching solution having a leaching agent for the sulphur followed by recovery coal depleted of sulphur characterized by the improvement which comprises subjecting particulate coal to a leaching operation using a weak alkaline hydroxide solution such as a 2N solution as said leaching solution and wherein the ration of particulate coal to the leaching agent is in the ration of 1 : 20 to 1 : 51 by weight, the leaching is carried out at temperatures not exceeding the boiling temperature of the leaching solution at normal pressure and wherein the coal obtained after the leaching step is subjected to acid wash in dilute mineral acid, such that a final leached and washed coal is obtained in which both inorganic sulphur organic sulphur and iron sulphide have been substantially removed.

Comp. specn. 7 pages.

Org. Nil.

Prov. specn 12 pages.

## CLASS 35-C &amp; 85-H

155402

Int. Cl. : B 01 j 1/00; C 04 b 7/00.

AN APPARATUS FOR BURNING CEMENT CLINKER.

Applicant : F. L. SMIDT & CO. A/S. OF 77 VIGER-SLEV ALLE, DK-2500 VALBY COPENHAGEN, DENMARK.

Inventors : HANS BRUN KNUDSEN.

Application No. 1279/Cal/81 filed November 17, 1981

Convention date 17th November 1980 (36837/80) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

An apparatus for burning cement clinker comprising a preheater with inlet and outlet for heating gas and inlet and outlet for pulverous cement raw material :

- a suspension calciner with inlets for fuel, combustion air and preheated raw materials, outlet for combustion gas connected to the heating gas inlet of the preheater and outlet for calcined material, communicating with the material inlet of a sintering furnace with inlet for fuel and combustion air, outlet for combustion gas communicating with the heating gas inlet of the preheater and outlet for the sintered product connected to the material inlet of an air collar for cooling the sintered product with an air outlet connected to both the air inlet of the sintering furnace and the air inlet of the suspension calciner,

characterized in that the sintering furnace comprises a cylindrical member rotatable around a slightly inclined axis defining a sintering drum;

- a suspension inlet duct provided with a material inlet and having a first end connected to the air outlet to the cooler and a second end connected to the upper end of the sintering drum and placed in a plane substantially parallel to the tangential plane of that part of the cylindrical wall of the sintering drum which is closest to the second end of the suspension inlet duct;
- a fuel inlet/fuel inlets projecting into the suspension inlet of the sintering drum or/and into the suspension inlet duct;
- a combustion gas outlet duct connected to one end of the sintering drum; and
- an outlet for the sintered product at the lower end of the sintering drum.

Comp. specn. 20.

Drg. 12 sheets.

CLASS : 32-E

155403

Int. Cl. C 08 f 1/00; 3/00.

## A METHOD FOR SUSPENSION POLYMERIZATION OF VINYL CHLORIDE.

Applicant : KANEGAFUCHI KAGAKU KOGYO KABUSHIKI KAISHA, OF 2-4, 3-CHOME, NAKANO-SHIMA, KITA-KU, USAKA, JAPAN.

Inventors : 1. YOSHIO TOMISHIMA, 2. YASUHIRO NOJIMA, 3. KUNIO YAMAMOTO, 4. SHIGERUSHI BAGA, & SHUICHI SHIMIZU.

Application No. 1286/Cal-81 filed November 19, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A method for suspension polymerization of a monomer comprising vinyl chloride alone or a mixture containing at least 85 wt.% of vinyl chloride which comprises charging the monomer and an initiator as herein described into a polymerization vessel, mixing those homogeneously, then charging degassed preheated deionized water and a suspending agent as herein described, wherein the concentration of the dissolved oxygen in the water is controlled in a known manner to not more than 2 ppm, and an amount of oxygen in the polymerization system is controlled in a known manner to not more than 5 ppm on the basis of an amount of the monomer charged and the water is previously elevated to a temperature between 50 and 80°C.

Comp. specn. 7

Drg. Nil.

CLASS : 136-L

155404

Int. Cl. : B 29 c 5/06; B 29 d 23/03.

## BOTTLE-LIKE OR JAR-LIKE CONTAINER OF THERMOPLASTIC MATERIAL AND A METHOD AND A DEVICE FOR MOULDING IT.

Applicant : PLM AB., OF DIJAKNEGATAN 16, P.O. BOX 836, S-201 80 MALMO, SWEDEN.

Inventors : 1. KJLL MOSVOLL JAKOBSEN, 2. CLAES TORSTEN NILSON.

Application No. 1349/Cal-81 filed November 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

Bottle-like or jar-like container (21) of thermoplastic material such as herein described having a body portion (26) with a central material portion (24) in the bottom, and a neck portion (25) defining an orifice, characterised in that the neck portion 25, preferably with the main part thereof, and the container body (26) preferably with the exclusion of the central material portion (24), consist of

thermoplastic material having an axial orientation obtained by a monoaxial stretching of said material, corresponding to stretching the material into yielding the axial orientation of the thermoplastic material of said body portion and of the thermoplastic material of said neck portion being substantially the same and that the thermoplastic material of said body portion also has a transverse orientation independent of and superimposed on said axial orientation said transverse orientation being obtained by transversely stretching the axially oriented thermoplastic material of the body portion whilst maintaining the axial length of the material of the body and neck portions substantially unchanged and preventing any substantial axial stretching of the thermoplastic material of the body and neck portions.

Compl. specn. 20 pages.

Drg. 4 sheets.

CLASS : 119-C; 146-C

155405

Int. Cl. : D 03 c 5/00, 11/00.

## SHEDDING DEFECT ANALYSER.

Applicant : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700088, WEST BENGAL, INDIA.

Inventors : 1. SAMIR KUMAR NEOGI, 2. AMITAVA BHATTACHARYA, 3. AMAL KUMAR PAL.

Application No. 1373/Cal/81 filed December 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

An instrument for analysing shedding defect in weaving machines i.e. looms, comprising means for graphically recording the profile of a tappet which, when angularly moved, causes up and down movement of a treadle lever fulcrumed at adjustable point at one end being provided at other end thereof with adjustable means to locate the connecting point of the healds carrying warp yarns, and means for simultaneously recording graphically the said movement of the treadle lever in relation to the said profile of the tappet

Compl. specn. 19 pages.

Drg. 4 sheets.

CLASS : 172D4, 8.

155406

Int. Cl. : D 01 h 7/00.

## METHOD AND APPARATUS FOR SPINNING YARN.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070 INGOLSTADT, WEST GERMANY.

Inventors : 1. EBERHARD GRIMM, 2. EUGEN HINI, 3. RUDOLF OEXLER.

Application No. 1444/Cal/81 filed December 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A method of spinning yarn in a spinning apparatus including the step of stopping an open end rotor spinning apparatus, wherein the shaft of a rotor which, in operation, is mounted in a tapered gap defined by freely rotatable supporting rollers, is pressed by a tangential belt against the supporting rollers, so as to be driven—and after the tangential belt has been lifted away from the supporting rollers, is moved away from the latter and pressed against stops, which are constituted as supporting bearings, and braked, characterised in that, after the shaft has been moved away from the supporting rollers, a braking force is applied in a manner as described herein to the spindles of the supporting rollers.

Compl. specn. 13 pages.

Drg. 1 sheet.

CLASS : 50-E<sub>s</sub>

155407

Int. Cl. : F25-b 31/00.

**HERMATIC REFRIGERATION COMPRESSOR.**

**Applicant :** WHITE CONSOLIDATED INDUSTRIES, INC. OF DELAWARE 11770 BEREA ROAD, CLEVELAND, OHIO 44111, U.S.A.

**Inventors :** JACK FEATH FRITCHMAN.

**Application No.** 425/Cal/82 filed April 17, 1982.

**Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972)** Patent Office, Calcutta.

**10 Claims**

A hermetic refrigeration compressor comprising a case having discharge and return lines secured there to a motor compressor unit mounted inside said case and including a cylinder housing having a cylinder and a piston therein, an electric motor secured to the upper side of said cylinder housing to drive reciprocate said piston in said cylinder, a cylinder head secured to said cylinder housing, said cylinder head including an inlet chamber and a discharge chamber, discharge muffler means connecting said discharge chamber to said discharge line suction muffler being supported by said cylinder head and comprising an elongated closed hollow shell having sidewalls extending longitudinally adjacent said electric motor said sidewalls defining an inlet opening at the end away from said cylinder head and adjacent said return line on said case, said shell having a deflector extending laterally thereof adjacent said inlet opening to deflect and guide refrigerant gas from said return line through said inlet opening into the interior of said suction muffler.

Comp. specn. 20.

Drg. 3 sheets.

CLASS : 69-I

155408

Int. Cl. : H01h 77/00.

**CIRCUIT CONTROL EQUIPMENT.**

**Applicant :** WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

**Inventors :** AVELINO JUAN GONZALEZ & ROBERT ELMER WOBRAK.

**Application No.** 590/Cal/82 filed May 22, 1982.

**Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972)** Patent Office, Calcutta.

**11 Claims**

Circuit control equipment comprising a base circuit control means movable into an operating disposition relative to said base for controlling an electrical circuit bracket means having two notches therein attached to said circuit control means, said notches being orthogonally oriented with respect to each other each said notch designating a rating parameter for said circuit control means and base coding means attached to said base having two notches therein so as to form two tabs on said base means, each said tab designating a rating parameter for said base, said tabs being orthogonally oriented with respect to each other each of said tabs interacting with a corresponding notch in said bracket means so as to allow said circuit control means to be placed into an operating disposition relative to said base only when both of said control circuit means rating parameters are larger than or equal to the associated base rating parameters.

Comp. specn. 15.

Drg. 6 sheets.

CLASS : 32-E

155409

Int. Cl. : C08f 1/02, 3/30.

**A PROCESS FOR MAKING A HEAT-CURABLE POLYMER.**

**Applicant :** UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

**Inventor :** MICHAEL JOHN KEOGH.

**Application No.** 1422/Cal/80 filed December 23, 1980.

**Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972)** Patent Office, Calcutta.

**9 Claims**

A process for making a heat-curable polymer comprising the steps of :

(a) preparing a mixture comprising :

alkylene-alkyl acrylate copolymer;

from 0.1 to 10 parts by weight based on 100 parts by weight of copolymer of di-functional compound having the formula



wherein  $R_1$  and  $R_3$  are independently selected from the group consisting of -OH, -SH,



wherein  $R_4$  is  $C_1$  to  $C_{20}$  hydrocarbon radical  $R_3$  is a divalent organic radical terminated with other than aryl, and from 0.1 to 10 parts by weight based on 100 parts by weight of the copolymer of organo titanate;

(b) heating said mixture to temperature of between the melting temperature of the copolymer and 200°C.

Compl. specn. 37 pages.

Drg. 2 sheets

CLASS : 114-D &amp; F

155410

Int. Cl. : C14c 3/00, 15/00.

**APPLIANCE DESIGNED FOR THE TREATMENT, PARTICULARLY IN A LIQUID, OF A PRODUCT LIKE LEATHER.**

**Applicant :** SOCIETE R.I.A.T. CHIRENS, 38850 CHARAVINES, FRANCE.

**Inventor :** YVES GRENIER.

**Application No.** 184/Cal/81 filed February 18, 1981.

**Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972)** Patent Office, Calcutta.

**18 Claims**

An appliance designed for the liquid treatment of products such as herein described, comprising a tank which can be filled at least partly with the treatment liquid and which is provided with an opening made in its peripheral wall, a rotary drum placed inside the tank, said drum being mounted on a roughly horizontal shaft which runs from end to end of the said tank and which can be driven in rotation, said drum having a peripheral envelope and compartments separated by axial partitions extending roughly radially from its shaft to said peripheral envelope, the product being loaded into each of the compartments in order to be treated by rotation of the drum and discharged through the said tank opening, each compartment having an opening and a lockable door in said peripheral envelope, said appliance being characterised in that said tank is mounted to swing round the drum shaft, a fixing means for temporarily fixing together in rotation the drum and the tank when the opening of one of the

compartments is placed opposite the tank opening with the object of loading and discharging the product in this compartment, a drive means for swinging the tank between a first position in which its (tank's) opening is roughly in its top position and a second position in which its opening is on the side, the product being treated by rotation of the drum when the opening of the said tank is in the said first position, loading of the product being performed through the top when the opening of the tank is in the said first position and the opening of the compartment to be loaded is opposite the tank opening, and discharge of the product being carried out on the side after the tank and the drum fixed together by the fixing means have been swung round by means of the said drive means to move the tank opening from the first position to said second position.

Compl. specn. 30 pages.

Drg. 8 sheets.

CLASS : 45-B<sub>1</sub>

155411

Int. Cl. : E 03 d 11/00.

#### TOILET PAN.

Applicant : WAVIN B. V., OF 251 HANDELLAAN, 8031 EM ZWOLLE, HOLLAND.

Inventor : HENRICUS GERARDUS MARIA LOMAN.

Application No. 510/Cal/81 filed May 14, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

A toilet pan, comprising at least an upper edge and an outlet, characterized in that the outlet joins a slanting front side and a rear side of the toilet pan and the toilet pan is of plastic material and the upper edge joins a circumferential part.

Compl. specn. 6 pages.

Drg. 1 sheet.

CLASS : 125-B<sub>2</sub>

155412

Int. Cl. : E 21 b 49/00; G 01 n 27/00.

#### APPARATUS FOR THE ELECTRICAL INVESTIGATION OF EARTH FORMATIONS TRAVERSE BY A BORE HOLE.

Applicant : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE, NEW YORK, NEW YORK 10017, U.S.A.

Inventor : NICK AUGUST SCHUSTER.

Application No. 596/Cal/81 filed June 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

Apparatus for the electrical investigation of earth formation traversed by a borehole comprising a plurality of transmitter and receiver coils disposed at predetermined positions along a support member, means for energizing said plurality of transmitter coils, and means for detecting and processing signals from said receiver coils, characterized in that said plurality of coils are interconnected to form at least two electrically independent transmitter-receiver coil groups and said plurality of coils are disposed along said support member so that an upper portion of a first coil group overlaps a lower portion of a second coil group in an overlap region.

Compl. specn. 21 pages.

Drg. 7 sheets.

CLASS : 6-A & B<sub>2</sub>; 50-D

155413

Int. Cl. : B 01 d 53/00.

#### AIR SEPARATING SYSTEM.

Applicant : KABUSHIKI KAISHA KOBE SEIKO SHO, OF 5-18, WAKINOHAMA-CHO, 1-CHOME, CHUO-KU, KOBE 651, JAPAN.

Inventors : 1. YASUSHI TOMISAKA, 2. YUJI HORII.

Application No. 636/Cal/81 filed June 12, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

An air separating system, characterized by at least three impurity adsorbers connected with each other by a number of on-off valves and a number of follower valves and located in feed air conduits leading from an air cooling tower for water-cooling the feed air to reversing heat exchangers of the system thereby to remove impurities from said feed air :

an expansion turbine for producing chill necessary for said system;

turbine output gas conduits for feeding part of output gas of said expansion turbine to said impurity adsorbers through said heat exchangers;

regenerating gas conduits for feeding again to said adsorbers the outflow of the turbine output gas from said adsorbers after heating; and

a cooling water circuit for circulating cooling water between a water cooling tower for cooling said cooling water against waste nitrogen gas discharged from said system through said heat exchangers and said air cooling tower;

said feed air from said air cooling tower being fed to said heat exchangers in operation through at least one of said adsorbers, while discharging part of said turbine output gas through the remaining adsorbers which are connected in series by said on-off valves, follower valves and regenerating gas conduits.

Compl. specn. 13 pages.

Drg. 2 sheets.

CLASS : 11-A

155414

Int. Cl. : A 01 m 1/02, 1/20.

155414

#### A METHOD OF MAKING AN IMPROVED DEVICE FOR THE CONTROL OF SELECTED INSECT POPULATION.

Applicants : THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF AGRICULTURE OF WASHINGTON, D.C. 20231, U.S.A. AND ALBANY INTERNATIONAL CORPORATION, AT 1 SAGE ROAD, MLNANDS, NEW YORK 12201, U.S.A.

Inventors : 1. JANET KAY HAWDRTH, 2. ROBERT TROY STATEN.

Application No. 771/Cal/81 filed July 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

a method of making an improved device for the control of selected insect population at a predetermined situs which comprises fabricating a synthetic, polymeric resin such as herein described to form a capillary tubular filament body, filling said filament body with pheromone as herein described and coating at least a portion of the outside of said filled filament body with an insecticidally effective amount of an insecticide for the insects.

Compl. specn. 13 pages.

Drg. 5 sheets.

CLASS : 107-C, G &amp; I

155415

Int. Cl. : F 02 m 7/00.

AN APPARATUS FOR CONTROLLING THE AIR FUEL RATIO IN A FUEL SUPPLY SYSTEM FOR COMBUSTION ENGINES.

Applicant : NEDERLANDSE CENTRALE ORGANISATIE VOOR TOEGEPAST-NATUURWETEN-SCHAPPELIJK ONDERZOLK, OF JULIANA VAN STOLBERGLAAN 148, 2595 CL THE HAGUE, THE NETHERLANDS.

Inventor : I. GUUSSTAAF ARTHUR SCHWIPPET.

Application No. 786/Cal/81 filed July 14, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

An apparatus for controlling the air-fuel ratio in a fuel supply system for combustion engines, using as fuel hydrocarbons, such as gasoline, alcohols or other fuel, or a mixture thereof, for combustion engines, provided with a device to determine the instantaneous state or composition of the fuel and to emit a signal as a variable for the control of the dosage device of the air-fuel ratio, characterized by an optoelectronic sensor mounted in the fuel to measure its index of light refraction, and an electronic circuit connected to the sensor to control the dosage device in accordance with the determined state or composition.

Compl. specn. 13 pages.

Drg. 3 sheets.

CLASS : 201-C

155416

Int. Cl. : C 02 b 1/00.

## WATER PURIFICATION SYSTEM.

Applicant & Inventor : WILLIAM J. GARTNER, AT 159 WILLIAMSBURG DRIVE, BARTLETT, ILLINOIS 60103, UNITED STATES OF AMERICA.

Application No. 806/Cal/81 filed July 18, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A portable water purifying apparatus for treating contaminated water to provide drinking water solely from the passage of said contaminated water through said apparatus comprising an elongated tube having a diameter of a size as to allow suction to be applied by a user's mouth, said tube having an interior conduit connecting an upper outlet and a lower inlet, said conduit having successive adjacent sections from said inlet and said outlet, a first section containing a primary filter means for removing particulate matter, a second section containing an iodinated ion exchange resin for removing harmful bacteria, viruses and the like a third section containing a secondary filtration material for removing additional particulate material, a fourth section containing activated carbon granules for removing undesirable odors, tastes and hydrocarbons, and a fifth section containing a secondary filter means for removing substantially all remaining particulate matter, whereby on the application of said suction when said lower inlet is inserted into a source of contaminated water, said contaminated water is treated to permit the ingestion of water directed from said upper outlet.

Compl. specn. 8 pages.

Drg. 1 sheet.

CLASS : 84-A

155417

Int. Cl. C 10 j 3/08.

ASH REMOVAL AND SYNTHESIS GAS GENERATION FROM COAL.

Applicant : TEXACO DEVELOPMENT CORPORATION, OF 2000 WESTCHESIER AVENUE, WHITE PLAINS, NEW YORK 10650, UNITED STATES OF AMERICA FORMERLY OF 135 EAST 42ND STREET, NEW YORK, NEW YORK 10017, U.S.A.

Inventors : 1. LAWRENCE F. ESTABROOK, 2. JAMES FRANKLIN ELLIOTT, 3. GEORGE NEAL RICHTER AND 4. WOLFGANG KOOG.

Application No. 1050/Cal/81 filed September 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A process for the production of substantially particle-free synthesis gas which comprises subjecting an ash-containing fuel to partial oxidation under superatmospheric pressure to produce a stream of synthesis gas comprising carbon monoxide and hydrogen and containing hot particles of ash and unconverted fuel, quenching the hot particles by contacting them with water in a quench zone, allowing the quenched particles to settle through said quench zone into a water-filled collection zone and maintaining a flow of water containing quenched particles from said quench zone to said collection zone.

Compl. specn. 16 pages.

Drg. Nil.

CLASS : 32-F<sub>2</sub> a; 32-F<sub>4</sub>; 55-D<sub>2</sub>

155418

Int. Cl. : A 01 n 9/00; C 07 c 43/00, 149/00.

PROCESS FOR PREPARATION OF NOVEL 2-ARYLETHYL ETHER OR THIOETHER DERIVATIVES AND INSECTICIDAL AND ACARICIDAL AGENTS CONTAINING SAID DERIVATIVES.

Applicant : MITSUBUTOATSU CHEMICALS, INC., OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

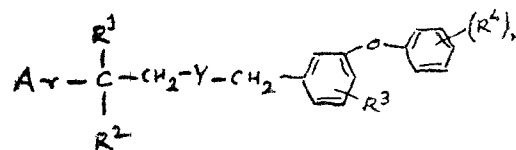
Inventors : 1. KIYOSHI NAKATANI, 2. SATOSHI NUMATA, 3. TSUNEO INOUE, 4. AKIRA HOSONO, 5. KENGO ODA, 6. YUTAKA-KUBOTA, 7. HAJIME TACHIBANA, 8. TAKATOSHI UDAGAWA.

Application No. 1111/Cal/81 filed October 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

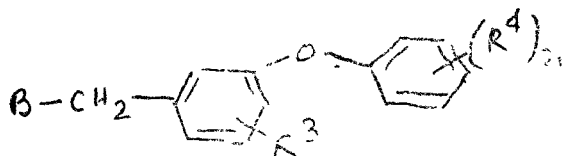
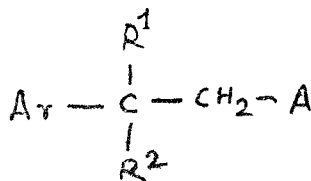
## 13 Claims

A process for the preparation of 2-arylethyl ether or thioether derivatives represented by the general formula (I) as shown in Fig. 1 in the accompanying drawings



wherein Ar stands for an aryl group, R<sup>1</sup> stands for a straight or branched chain alkyl group of 1 to 6 carbons, R<sup>2</sup> stands for a hydrogen atom, or a methyl or ethyl group, R<sup>4</sup> stands for a halogen atom, or a methyl or methoxy group, R<sup>4</sup> stands for a hydrogen or halogen atom, or a lower alkyl group or a lower alkoxy group, and n is an integer of 1 or 2 with the proviso that when n is 2 the groups R<sup>4</sup> may be the same or different, and Y stands for an oxygen or sulfur atom.

which comprises reacting a compound represented by the general formula (III) as shown in Fig. 3 in the drawings,



with a compound represented by the general formula (IV) as shown in Fig. 4 in the drawings,

wherein Ar, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and n are as defined above, and one of the group A and B stands for a halogen atom and the other group is a group Y-M in which Y is as defined above and M stands for a hydrogen atom or an alkali metal or alkaline earth metal atom, or both A and B stand for a hydroxyl group.

Compl. specn. 119 pages.

Drg. 5 sheets.

CLASS : 150-G; 151-E

155419

Int. Cl. : F 16L 55/00.

DEVICE FOR IMPROVING THE RESISTANCE AND THE STIFFNESS OF A SUBSEA CONDUIT.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors : 1. ALFREDO BERTI, 2. ROLANDO MATTELLI.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims

A device for improving the resistance and the stiffness of subsea conduits consisting of a pipe section having an increased thickness but the same inside-diameter and having at the ends two sections with a thickness equal to that of the remainder of the conduit, the total lengths of said section being equal to a value of from 0.5 times to 10 times the nominal outside diameter of the conduit and the length of the end portions being equal to at least 1.5 times, preferably between 2 times and 5 times the increased wall thickness.

Compl. specn. 9 pages.

Drg. 1 sheet.

CLASS : 39 K & P

155420

Int. Cl. : C 01 25/18.

PROCESS FOR THE MANUFACTURE OF PHOSPHORIC ACID FROM LOW GRADE ROCK PHOSPHATE.

Applicants : PROJECT AND DEVELOPMENT INDIA LIMITED, OF C.I.F.T. BUILDINGS, P.O. SINDRI, PIN-828122, DIST. DHANBAD, BIHAR, INDIA.

Inventors : SATYENDRA VARMA, ASHUTOSH MUKHERJEE, RAM UDAR SINGH, BISWANATH GUPTA, OM PRAKASH MITAL & BAISAKH GUPTA.

Application No. 1337/Cal/81 filed November 26, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 13 Claims

A process for preparing phosphoric acid from low grade rock phosphate which comprises subjecting the rock phosphate to digestion at 55°C to 70°C. with a mixture of inorganic acids made of a major quantity of phosphoric acid along with sulfuric acid and hydrofluosilicic acid, followed by recovering the liquid-phase and thereafter subjecting the liquid phase to reaction with conc. sulfuric acid at 45°C-70°C.

Compl. specn. 9 pages.

Drg. Nil.

CLASS : 84C; & 47C

155421

Int. Cl. : C<sub>1</sub> 01 5/00; B 01 d 45/00.

PROCESS FOR THE SEPARATION OF ASH AND UNGASIFIED SOLID FUEL FROM THE PRODUCTS OF GASIFICATION OR PARTIAL COMBUSTION.

Applicants TEXACO DEVELOPMENT CORPORATION, OF 135 EAST 42ND STREET, NEW YORK, NEW YORK-10017, U.S.A.

Inventors : ROY DENNIS ROBERTS & GEORGE NEAL RICHTER.

Application No. 1360/Cal/80 filed December 9, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 4 Claims

A process for the separation of ash and ungasified solid fuel from the products of gasification or partial combustion and the return of the ungasified solid fuel to the gasification zone where with additional fresh solid fuel is subjected to partial oxidation to form a gas comprising carbon monoxide and hydrogen, and containing entrained solid particle of ash for low carbon content and particles of high carbon content comprising unconverted solid fuel, which process comprises separating said solid particles from said gas comprising carbon monoxide and hydrogen, by passing said gas and entrained solid particles through water to form an aqueous suspension of said solid particles, wherein said suspension is screened to remove large particles of material, said screened suspension is subjected to a gravitational force of from 10 to 1000 G in a continuous centrifuge to form a centrifuged cake portion containing particles of high carbon content and a dilute water suspension of particles of low carbon content, and the centrifuged cake is separated from said dilute water suspension and is recycled with fresh carbonaceous fuel to the particle oxidation zone.

Comp. Specn. 13 pages.

Drg. Nil.

CLASS : 129 J

155422

Int. Cl. : B 21 b 29/00.

VARIABLE CROWN ROLL

Applicant : SUMITOMO METAL INDUSTRIES, LTD, OF 15, 5-CHOME, KITAHAMA, HIGASHI-KU, OSAKA-SHI, OSAKA, JAPAN.

Inventor : JOSHUI TAKIGAWA, EIZI HIROOKA, TAKESHI MASUI, KAZUO KONDO AND EIZO YASUI.

Application No. 263/Cal/81 filed March 11, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 5 Claims

A variable crown roll comprising :  
an arbor;

sleeve shrinkage-fitted on said sleeve;

an annular cavity defined between said arbor and said sleeve and having a predetermined depth;

a medium leading-in passage provided at an end of said arbor and communicated with an end of said cavity; and

a medium leading-out passage communicated with the other end of said cavity;

the depth of said cavity being predetermined to a value smaller than the value of maximum deflection of said sleeve due to an extraordinary load which occurs during rolling under a normal value of rollcrowning.

Comp. specn. : 13 pages.

Drg. 3 sheets.

CLASS : 42A<sub>1</sub>

155423

Int. Cl. : A 24 c 5/50.

APPARATUS FOR MAKING GROOVES IN TOBACCO SMOKE FILTERS.

Applicants : BROWN & WILLAMSON TOBACCO CORPORATION, 1600 WEST HILL STREET, LOUISVILLE, KENTUCKY, U.S.A.

Inventors : JOHN HENRY SEXSTONE, ROBERT THOMAS LEWIS & KEN MILLINER.

Application No. 751/Cal/81 filed July 7, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 16 Claims

An apparatus for making grooves in tobacco smoke filters, comprising :

- (a) conveying means;
- (b) means to feed filter rods to said conveying means;
- (c) stationarily mounted heated groove-making means; and
- (d) receiving means in discharge relation with said conveying means,

characterized in that said groove-making means is in pre-selected co-operating spaced relation with said conveying means and is transversely disposed in relation to movement of said conveying means whereby a groove is impressed into the filter rod as it is conveyed past the groove-making means.

Comp. specn. 13 pages.

Drg. 3 sheets.

CLASS : 71A & G, 131B<sub>1</sub>

155424

Int. Cl. : C 06 c 1/00, 5/04.

DELAY DETONATOR.

Applicants : E.I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors : MALAK FLIAS YUNAN.

Application No. 968/Cal/81 filed August 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 18 Claims

A delay detonator comprising a tubular metal detonator shell integrally closed at one end closed at the other end by an ignition assembly for igniting a train of charges therein, and containing, in sequence from its integrally closed end,

- (a) a base charge of a detonating explosive composition;
- (b) a priming charge of a heat-sensitive detonating explosive composition;
- (c) a pressed delay charge of an exothermic-burning composition; and

(d) a loose pulverulent, flame-sensitive ignition charge separating said delay charge from said ignition assembly, said loose ignition charge (1) having a free surface and (2) being adapted to be ignited in response to direct contact with flame emitted from the ignition of a charge in said ignition assembly.

Comp. specn. 23 pages

Drg. 2 sheets.

CLASS : 85-J

155425

Int. Cl. : F 25 d 31/00.

STRAIGHT LINE SINTER COOLER.

Applicant : HEAVY ENGINEERING CORPORATION LTD., OF PLANT PLAZA ROAD, RANCHI-4, BIHAR, INDIA.

Inventor : 1. SIKDANDAR LAL, 2. BIJOY KUMAR CHATTERJEE.

Application No. 315/Cal/82 filed March 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

A straight line sinter cooler including a cooling air sealing system comprising a heat resistant rubber strip fixed at one end on each side on inner sides of blowing chambers, and having its free end bent and pressing against packing plates of moving chain sections of the cooler providing sealing of cooling air in blowing chambers.

Comp. specn. 9 pages

Drg. 2 sheets.

CLASS : 32-F<sub>1</sub> b; 55-E<sub>1</sub>

155426

Int. Cl. : C 07 d 99/00.

A PROCESS FOR THE MANUFACTURE OF LOWER ALKANOVIOXY-ALKYL ESTERS OF CEPHALOSPORIN DERIVATIVES.

Applicant : F. HOFFMANN-LA ROCHE & CO. AKTIEN-GESELLSCHAFT, 124-184 GRONZ-ACHERSTRASSE, BASLE, SWITZERLAND.

Inventors : 1. MARC MONTAVON, 2. ROLAND RFINER.

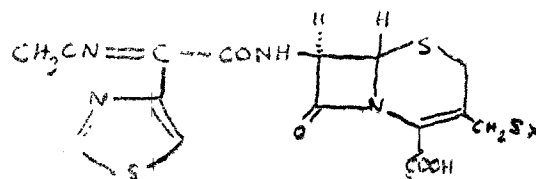
Application No. 1031/Cal/81 filed September 15, 1981.

Complete Specification dated 19th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

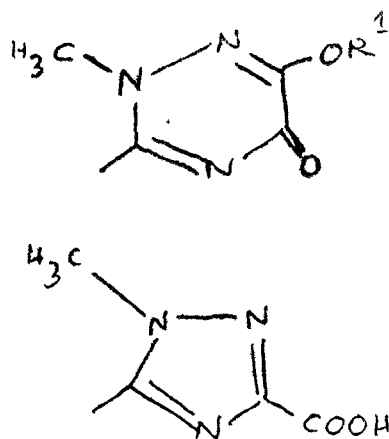
#### 7 Claims

A process for the manufacture of lower alkanovioxyalkyl esters of cephalosporin derivatives of the general formula I of the drawings of the provisional specification.





in which X represents one of the groups (a) and (b) of Fig. 1 of the drawings of the provisional specification,



wherein R¹ represents lower alkyl, as well as of acid addition salts of these esters and of hydrates of these esters or acid addition salts; comprising subjecting a carboxylic acid of formula I or a salt of this compound to treatment with a lower alkanoyloxyalkyl halide and, if desired, converting the product obtained into an acid addition salt or hydrate or into a hydrate of this acid addition salt.

Compl. specn. 39 pages.

Drg. 2 sheets

Provisional specification 36 pages.

CLASS : 123

155427

Int. Cl. : C05f 19/00.

#### AN IMPROVED PROCESS FOR OBTAINING STABLE GRANULAR NP FERTILIZER FROM INCOMPATIBLE RAW MATERIALS.

Applicant : PROJECTS AND DEVELOPMENT INDIA LIMITED OF C.I.F.T. BUILDINGS, P.O. SINDRI PIN-828122, DIST. DHANBAD, BIHAR, INDIA

Inventors : 1. NAGENDRA PRASAD MISRA 2 JAMUNA PRASAD SINGH. 3 NANDA GOPAL SINHA 4. SATYENDRA VARMA.

Application No 1038/Cal/81 filed November 26, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

#### 6 Claims

A process for the preparation of highly water soluble granular NP fertilizer from incompatible raw materials comprising preparing a slurry of urea and TSP in water with heating at 80° to 95°C with stirring followed by subjecting the heated slurry to reaction with ammonium sulphate with or without fillers, discontinuing heating when the reaction mixture becomes sufficiently viscous, whereafter the viscous mass thus obtained is cooled to obtain a pasty mass and thereafter subjecting the pasty mass to granulation

Compl. specn. 9 pages.

Drg Nil

CLASS : 40-B & 1

155428

Int. Cl. : B01j 11/30.

#### PROCESS FOR OBTAINING AND REUSE OF HEAVY METAL OXIDATION CATALYST FROM RESIDUES IN THE WITTENDMT PROCESS.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF POSTFACH 1209, 521 TROISDORF WEST GERMANY.

Inventors : 1. DR. HEINRICH BUNGER, 2. DR. RUDOLF CORDES, 3. DR. GERHART HOFFMANN.

Application No. 1360/Cal/81 filed December 1, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

Process for obtaining and re-use of heavy metal oxidation catalyst from residues which are deposited in the oxidation of p-xylene and p-toluic acid methyl ester in the liquid phase with oxygen or an oxygen-containing gas at elevated pressure and elevated temperature in the presence of dissolved heavy metal oxidation product with methanol at elevated pressure and elevated temperature and distillative separation of the esterification product into a crude DMT-fraction, a p-toluic acid methyl ester-rich fraction and a high boiling distillation residue, in the Witten-DMT process by extraction, while undergoing mixing and being allowed to settle out at 70 to 160°C, using water or diluted aqueous solutions of water-soluble, low molecular weight aliphatic monocarboxylic acids as extracting medium and return of the extract of the high boiling distillation residues, characterised in that high boiling distillation residue and extraction medium are led in counter-current in a ratio of amounts of 1 : 0.9 to 1 : 0.1, preferably 1 : 0.5 to 1 : 0.3.

Compl. specn. 16 pages.

Drg. Nil.

CLASS : 85-J

155429

Int. Cl. : F27b 15/10.

#### HOT GAS SYSTEM FOR DRIVING GENERATORS.

Applicant KRAFTWERK UNION AKTIENGESELLSCHAFT OF D-4330 MULHEIM (RUHR), WIESENSTR 35, WEST GERMANY

Inventors 1 HEINRICH KLEIN, 2 EDUARD WEBER, 3 RUDOLF PIEPER.

Application No 442/Cal/82 filed April 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

#### 6 Claims

Hot gas system for driving generators comprising a rotary flow centrifugal separator having a hopper provided with means for the removal of gas from the hopper by suction, a fluidized bed furnace upstream of the rotary flow centrifugal separator, a gas turbine downstream of the rotary flow centrifugal separator, and means for recycling at least part of the gas removed from the hopper by suction to the fluidized bed furnace.

Compl specn 7 pages.

Drg. 3 sheets

CLASS 32-F2 b; 55-F

155430

Int. Cl. : C07d 31/46

#### PROCESS FOR OBTAINING 3-CYANOPYRIDINE.

Applicant DEGUSSA AKTIENGESELLSCHAFT, HANAU, RODENBACHER CHAUSSEE, WEST GERMANY.

Inventors 1 HELMUT BESCHKE, 2. FRANZ LUDWIG DAHM 3 DR. HEINZ FRIEDRICH.

Application No 647 Cal/82 filed June 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

#### 2 Claims

In a process for the recovery of 3-cyanopyridine from the gaseous mixture resulting from the catalytic reaction of 3-methylpyridine with ammonia and oxygen and treatment of the gaseous mixture with water, the improvement comprising in a first step treating the gaseous mixture at a temperature of 30 to 60°C with water and then in a second step treating the gaseous mixture remaining after the first step with water at a temperature between 10 to 30°C lower than the temperature in the first step

Compl specn 12 pages.

Drg. 1 sheet.

## OPPOSITION PROCEEDINGS

The opposition entered by Orissa Cement Limited to the grant of a patent on application No. 146504 made by Shyam Sundar Ghose has been partly allowed and ordered that a patent to be sealed subject to amendment of the specification.

## PATENT SEALED

150514 152050 152528 152687 152688 152692 152693 152696  
152697 152698 152699 152700 152705 152706 152707 152709  
152711 152712 152713 152714 152715 152718 152719 152720  
152721 152722.

## RENEWAL FEES PAID

124685 124725 125098 125177 125209 129963 134208 134299  
134319 134323 134325 135850 136710 137263 137488 137489  
137559 137562 137844 137855 138220 138625 139619 140350  
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143923 145022 145578 145983 146312 146563 147542 147581  
148224 148497 149180 149626 149468 149778 150105 150229  
150436 152023 152052 152102 152198 152231 152252 152261

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class 1. No. 154777. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight 2". 31st August, 1984.
- Class 3. No. 154772. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight 2". 31st August, 1984.
- Class 3. No. 154774. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight 8". 31st August, 1984.
- Class 3. No. 154776. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight-10". 31st August, 1984.
- Class 3. No. 154778. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight-12". 31st August, 1984.

Class 3. No. 155038. Eagle Flask Private Limited (An Indian Company under the Act) at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India, "Vacuum Flask". 12th November, 1984.

Class 3. No. 155046. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India. "Lunch Case". 14th November, 1984.

Class 3. No. 155047. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India. "Jar". 14th November, 1984.

Class 3. No. 155048. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India; "Container", 14th November, 1984.

Class 3. No. 155049. Eagle Flask Private Limited, a company incorporated under the Indian Companies Act, at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India. "Flask". 14th November, 1984.

Class 3. No. 155053. Shiwani Industries, Mathra Chhaya. College Road, Dhanu, Dist. Thane, Maharashtra State an Indian Sole Proprietary Firm. "Vertical Elevator Bucket". 15th November, 1984.

Class 3. No. 155076. Milton Plastics, a registered Indian Partnership Firm, registered under Indian Partnership Act, 1932, having office at 202/203, Raheja Centre, 214 Nariman Point, Bombay-400 021, Maharashtra, India. "a Tray". 21st November, 1984.

Class 3. No. 155077. Milton Plastics, a registered Indian Partnership Firm, registered under Indian Partnership Act, 1932, having office at 202/203, Raheja Centre, 214 Nariman Point, Bombay-400 021, Maharashtra, India. "a Lunch Box. 21st November, 1984.

Class 3. No. 154890. Eagle Flask Private Limited, a company incorporated under Companies Act, at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India. "Vacuum Flask". 28th September, 1984.

Class 3. No. 154891. Eagle Flask Private Limited, a company incorporated under Companies Act, at Eagle Estate, Telegaon 410 507, District Pune, State of Maharashtra, India. "Vacuum Flask". 28th September, 1984.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks.